Abstract

A digital serial interface is provided between a transmitting device (303) and a receiving device (304) for transmitting a serial sequence of data bits and a number of associated synchronization signals over a wired connection. The transmitting device comprises primary transmitter means (401) for converting a serial sequence of data bits into successive data signal levels in an output line (Vline+, Vline-). Said data signal levels are selected from a first group of levels. The transmitting device comprises also secondary transmitter means (403, 601, 602) for converting synchronization signals into synchronization signal levels on said output line. Said synchronization signal levels are selected from a second group of levels which consists of different levels than said first group of levels. The receiving device comprises primary receiver means (402, 801) that are responsive to a first group of signal levels. They are used for converting a sequence of successive data signal levels in an input line into a serial sequence of data bits. The receiving device comprises also secondary receiver means (404, 405, 802, 804) that are responsive to a second group of signal levels which consists of different levels than said first group of signal levels. They are used for converting synchronization signal levels in said input line into synchronization signals.

Fig. 4